

CODE STEM - Moon, Mars, and Beyond; DLESE-Powered On-Line Classroom, Phase I

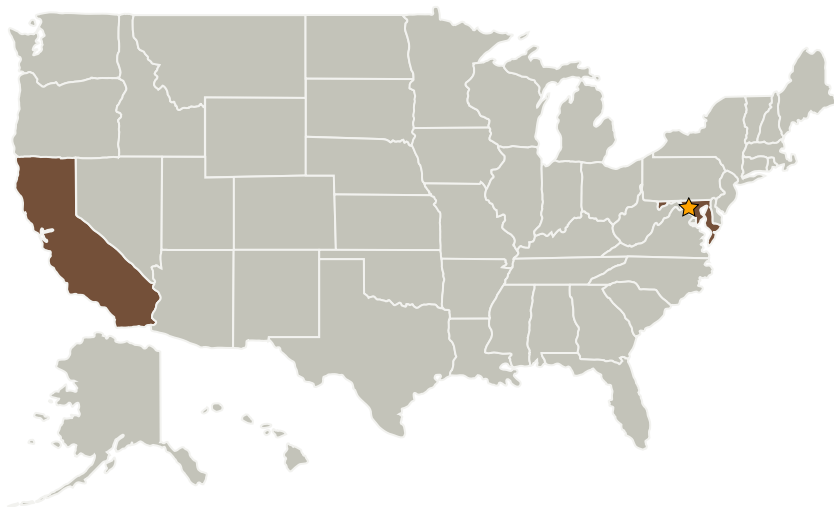
Completed Technology Project (2004 - 2005)



Project Introduction

"CODE (CORps DEvelopment) STEM (Science, Technology, Engineering, and Math) ? Moon Mars and Beyond; DLESE-Powered On-Line Classroom" shares the excitement of President Bush's vision of space exploration with 8th grade students. Program fulfills standards-based 8th grade curriculum and will be implemented in two diverse Escondido schools (Grant, Rincon). San Diego County Office of Education will ensure relevance and integration into formal curriculum. Through thematic approach to learning and multi-disciplinary exhibit-centered final project, Program strives to engage broad cross-section of students and teachers. Focus is on developing a theme-specific DLESE (Digital Library for Earth System Education) collection and portal. On-line learning communities and inquiry based learning protocols (San Diego State University) will enhance DLESE effectiveness. Implementation culminates with multi-disciplinary student exhibit at participating schools and San Diego Aerospace Museum, sharing excitement of space exploration with general public. In Phase II DLESE collection will be expanded to support additional grade levels (3rd, 5th, 8th, high school), there will be broad implementation in San Diego and Nashville (through Fisk University), and teacher training.

Primary U.S. Work Locations and Key Partners



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Organizational Responsibility

Responsible Mission Directorate:

Space Technology Mission Directorate (STMD)

Lead Center / Facility:

Goddard Space Flight Center (GSFC)

Responsible Program:

Small Business Innovation Research/Small Business Tech Transfer

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Organizations Performing Work	Role	Type	Location
★Goddard Space Flight Center(GSFC)	Lead Organization	NASA Center	Greenbelt, Maryland
Nu-Trek, Inc.	Supporting Organization	Industry	Poway, California

Primary U.S. Work Locations

California	Maryland
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Project Management

Program Director:

Jason L Kessler

Program Manager:

Carlos Torrez

Principal Investigator:

Miriam Rauch

Technology Areas

Primary:

- TX07 Exploration Destination Systems
 - └ TX07.1 In-Situ Resource Utilization
 - └ TX07.1.2 Resource Acquisition, Isolation, and Preparation